

INFORMAL SEQUENCE LISTING

INFORMATION FOR SEQ ID NO:1:

- (a) SEQUENCE CHARACTERISTICS:
 <212> DNA
 <213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:1:

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 ttattattgg gaccgttggg aggaataatg acttttccac tgcaagactg aagatatcag 180
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 aaatgtcaca ttctcttggg ac 622

INFORMATION FOR SEQ ID NO:2:

- (a) SEQUENCE CHARACTERISTICS:
 <212> DNA
 <213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:2:

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INFORMATION FOR SEQ ID NO:3:

- (a) SEQUENCE CHARACTERISTICS:
 <212> DNA
 <213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:3:

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 aagtgcaggt ggtaactatt tctgtagtac caaaggacaa ctctttctct gggataaaaac 600
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10040862.10601

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1908

INFORMATION FOR SEQ ID NO:4:

(a) SEQUENCE CHARACTERISTICS:
<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:4:

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ctaataaaaa attataggat acaaaagaaa aaaaagaaat atgaagaggg ctggatgggc 180
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gatattcccc tcaaacgtct aaatatattg ttgagaaaat tatctctaac tgttctagt 300
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ggttgggagt ttgtgaatct attgaggcat cacaatctt ttctgatagc cctcttgtgt 420
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INFORMATION FOR SEQ ID NO:5:

- (a) SEQUENCE CHARACTERISTICS:
 <212> DNA
 <213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:5:

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aaggtaactt	ctctcctgct	catgtgtcag	tgtctacctg	cccaagtaag	tggctttcat	180
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INFORMATION FOR SEQ ID NO:6:

- (a) SEQUENCE CHARACTERISTICS:
 <212> DNA
 <213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:6:

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INFORMATION FOR SEQ ID NO:7:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:7:

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SF 1271806 v1

INFORMATION FOR SEQ ID NO:8:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:8:

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 tctgagcata tgtttctctg ccgtagaaag gattaagctg tttcttctcc ggattcttct 2700
 ctcatgtact tctaagaagc ctctactctt gagtctcttt cattactggg gatgtaaagt 2760
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INFORMATION FOR SEQ ID NO:9:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:9:

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INFORMATION FOR SEQ ID NO:10:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:10:

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INFORMATION FOR SEQ ID NO:11:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:11:

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INFORMATION FOR SEQ ID NO:12:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:12:

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INFORMATION FOR SEQ ID NO:13:

(a) SEQUENCE CHARACTERISTICS:

<212> DNA

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:13

10040862.10501

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INFORMATION FOR SEQ ID NO:14:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Met	Gly	Lys	Lys	Thr	Gln	Arg	Ser	Leu	Ser	Ala	Glu	Leu	Glu	Ile	Pro	5	10	15
Ala	Val	Lys	Glu	Ser	Asp	Ala	Gly	Lys	Tyr	Tyr	Cys	Arg	Ala	Asp	Asn	20	25	30
Gly	His	Val	Pro	Ile	Gln	Ser	Lys	Val	Val	Asn	Ile	Pro	Val	Arg	Ile	35	40	45
Pro	Val	Ser	Arg	Pro	Val	Leu	Thr	Leu	Arg	Ser	Pro	Gly	Ala	Gln	Ala	50	55	60
Ala	Val	Gly	Asp	Leu	Leu	Glu	Leu	His	Cys	Glu	Ala	Leu	Arg	Gly	Ser	65	70	75
Pro	Pro	Ile	Leu	Tyr	Gln	Phe	Tyr	His	Glu	Asp	Val	Thr	Leu	Gly	Asn	85	90	95
Ser	Ser	Ala	Pro	Ser	Gly	Gly	Gly	Ala	Ser	Phe	Asn	Leu	Ser	Leu	Thr	100	105	110
Ala	Glu	His	Ser	Gly	Asn	Tyr	Ser	Cys	Glu	Ala	Asn	Asn	Gly	Leu	Gly	115	120	125
Ala	Gln	Cys	Ser	Glu	Ala	Val	Pro	Val	Ser	Ile	Ser	Gly	Pro	Asp	Gly	130	135	140
Tyr	Arg	Arg	Asp	Leu	Met	Thr	Ala	Gly	Val	Leu	Trp	Gly	Leu	Phe	Gly	145	150	155
Val	Leu	Gly	Phe	Thr	Gly	Val	Ala	Leu	Leu	Leu	Tyr	Ala	Leu	Phe	His	165	170	175
Lys	Ile	Ser	Gly	Glu	Ser	Ser	Ala	Thr	Asn	Glu	Pro	Arg	Gly	Ala	Ser	180	185	190
Arg	Pro	Asn	Pro	Gln	Glu	Phe	Thr	Tyr	Ser	Ser	Pro	Thr	Pro	Asp	Met	195	200	205
Glu	Glu	Leu	Gln	Pro	Val	Tyr	Val	Asn	Val	Gly	Ser	Val	Asp	Val	Asp	210	215	220
Val	Val	Tyr	Ser	Gln	Val	Trp	Ser	Met	Gln	Gln	Pro	Glu	Ser	Ser	Ala	225	230	235
Asn	Ile	Arg	Thr	Leu	Leu	Glu	Asn	Lys	Asp	Ser	Gln	Val	Ile	Tyr	Ser	245	250	255
Ser	Val	Lys	Lys	Ser														

INFORMATION FOR SEQ ID NO:15:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Met Trp Glu Trp Lys Ile Cys Asn Ser His Gly Ala Arg Pro Phe Ala
5 10 15

Glu Pro Ala Gly Trp Glu Phe Val Asn Leu Leu Arg His His Lys Ser
20 25 30

Phe Leu Ile Ala Pro Leu Cys Leu Ser Val Pro Val Ser Arg Pro Val
35 40 45

Leu Thr Leu Arg Ser Pro Gly Ala Gln Ala Ala Val Gly Asp Leu Leu
50 55 60

Glu Leu His Cys Glu Ala Leu Arg Gly Ser Pro Pro Ile Leu Tyr Gln
65 70 75 80

Phe Tyr His Glu Asp Val Thr Leu Gly Asn Ser Ser Ala Pro Ser Gly
85 90 95

Gly Gly Ala Ser Phe Asn Leu Ser Leu Thr Ala Glu His Ser Gly Asn
100 105 110

Tyr Ser Cys Glu Ala Asn Asn Gly Leu Gly Ala Gln Cys Ser Glu Ala
115 120 125

Val Pro Val Ser Ile Ser Gly Pro Asp Gly Tyr Arg Arg Asp Leu Met
130 135 140

Thr Ala Gly Val Leu Trp Gly Leu Phe Gly Val Leu Gly Phe Thr Gly
145 150 155 160

Val Ala Leu Leu Leu Tyr Ala Leu Phe His Lys Ile Ser Gly Glu Ser
165 170 175

Ser Ala Thr Asn Glu Pro Arg Gly Ala Ser Arg Pro Asn Pro Gln Glu
180 185 190

Phe Thr Tyr Ser Ser Pro Thr Pro Asp Met Glu Glu Leu Gln Pro Val
195 200 205

Tyr Val Asn Val Gly Ser Val Asp Val Asp Val Val Tyr Ser Gln Val
210 215 220

Trp Ser Met Gln Gln Pro Glu Ser Ser Ala Asn Ile Arg Thr Leu Leu
225 230 235 240

Glu Asn Lys Asp Ser Gln Val Ile Tyr Ser Ser Val Lys Lys Ser
245 250 255

T090T" 2980400T

INFORMATION FOR SEQ ID NO:16:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Met Gly Lys Lys Thr Gln Arg Ser Leu Ser Ala Glu Leu Glu Ile Pro
5 10 15

Ala Val Lys Glu Ser Asp Ala Gly Lys Tyr Tyr Cys Arg Ala Asp Gly
20 25 30

Cys Gly

INFORMATION FOR SEQ ID NO:17:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:17:

Asn Gly His Val Pro Ile Gln Ser Lys Val Val Asn Ile Pro Val Arg
5 10 15

Ile Pro Val Ser Arg Pro Val Leu Thr Leu Arg Ser Pro Gly Ala Gly
20 25 30

Cys Gly

INFORMATION FOR SEQ ID NO:18:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Gln Ala Ala Val Gly Asp Leu Leu Glu Leu His Cys Glu Ala Leu Arg
5 10 15

Gly Ser Pro Pro Ile Leu Tyr Gln Phe Tyr His Glu Asp Val Thr Gly
20 25 30

Cys Gly

INFORMATION FOR SEQ ID NO:19:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:19:

Leu Gly Asn Ser Ser Ala Pro Ser Gly Gly Gly Ala Ser Phe Asn Leu
5 10 15

Ser Leu Thr Ala Glu His Ser Gly Asn Tyr Ser Cys Glu Ala Asn Gly
20 25 30

Cys Gly

INFORMATION FOR SEQ ID NO:20:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:20:

Asn Gly Leu Gly Ala Gln Cys Ser Glu Ala Val Pro Val Ser Ile Ser
5 10 15

Gly Pro Asp Gly Tyr Arg Arg Asp Leu Met Thr Ala Gly Val Leu Trp
20 25 30

Gly Cys Gly
35

SF 1271815 v1

10040852-110501

INFORMATION FOR SEQ ID NO:21:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:21:

GVLWGLFGV

INFORMATION FOR SEQ ID NO:22:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:22:

LLYALFHKI

INFORMATION FOR SEQ ID NO:23:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GLFGVLGFT

INFORMATION FOR SEQ ID NO:24:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:24:

VVYSQVWSM

INFORMATION FOR SEQ ID NO:25:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:25:

VLGFTGVAL

INFORMATION FOR SEQ ID NO:26:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:26:

VLWGLFGVL

10040862-110601

INFORMATION FOR SEQ ID NO:27:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:27:

YVNVGSVDV

INFORMATION FOR SEQ ID NO:28:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:28:

MTAGVLWGL

INFORMATION FOR SEQ ID NO:29:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:29:

VLTLRSPGA

INFORMATION FOR SEQ ID NO:30:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:30:

ELQPVYVNV

10040863.10501

INFORMATION FOR SEQ ID NO:31:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:31:

LL[~]ENKDSOV

INFORMATION FOR SEQ ID NO:32:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:32:

AQCSEA[~]VPV

INFORMATION FOR SEQ ID NO:33:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:33:

NVGSVDVDV

INFORMATION FOR SEQ ID NO:34:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:34:

DLLELHCEA

INFORMATION FOR SEQ ID NO:35:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

(b) SEQUENCE DESCRIPTION: SEQ ID NO:35:

GLGAQCSEA

10040862-110601
FOOT-2884001

INFORMATION FOR SEQ ID NO:36:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:36:

QQPESSANI

INFORMATION FOR SEQ ID NO:37:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:37:

GVALLLYAL

INFORMATION FOR SEQ ID NO:38:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:38:

FGVLGFTGV

INFORMATION FOR SEQ ID NO:39:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:39:

SMOOPESSA

INFORMATION FOR SEQ ID NO:40:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:40:

KISGÈSSAT

10040362 110601

INFORMATION FOR SEQ ID NO:41:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:41:

VLWGLFGVL

INFORMATION FOR SEQ ID NO:42:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:42:

GVLWGLFGV

INFORMATION FOR SEQ ID NO:43:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:43:

GVALLLYAL

INFORMATION FOR SEQ ID NO:44:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:44:

VVYSQVWSM

INFORMATION FOR SEQ ID NO:45:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:45:

YVNVGSVDV

INFORMATION FOR SEQ ID NO:46:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:46:

VLGFTGVAL

INFORMATION FOR SEQ ID NO:47:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:47:

LLYALFHKI

INFORMATION FOR SEQ ID NO:48:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:48:

RIPVSRPVL

INFORMATION FOR SEQ ID NO:49:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:49:

GLFGVLGFT

INFORMATION FOR SEQ ID NO:50:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:50:

KVVNIPVRI

INFORMATION FOR SEQ ID NO:51:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:51:

GVLGFTGVA

INFORMATION FOR SEQ ID NO:52:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:52:

NVGSVDVDV

INFORMATION FOR SEQ ID NO:53:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:53:

HVPIQSKVV

INFORMATION FOR SEQ ID NO:54:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:54:

YQFYHEDVT

INFORMATION FOR SEQ ID NO:55:

- (a) SEQUENCE CHARACTERISTICS:
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- (b) SEQUENCE DESCRIPTION: SEQ ID NO:55:

LGFTGVALL

INFORMATION FOR SEQ ID NO:56:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:56:

YSCEANNGL

INFORMATION FOR SEQ ID NO:57:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:57:

KISGESSAT

INFORMATION FOR SEQ ID NO:58:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:58:

MTAGVLWGL

INFORMATION FOR SEQ ID NO:59:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:59:

PVSRPVLTL

INFORMATION FOR SEQ ID NO:60:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:60:

AQAAVGDLL

INFORMATION FOR SEQ ID NO:61:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:61:

GFTGVALLL

INFORMATION FOR SEQ ID NO:62:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:62:

TYSSPTPDM

INFORMATION FOR SEQ ID NO:63:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:63:

QFYHEDVTL

INFORMATION FOR SEQ ID NO:64:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:64:

RIPVSRPVL

10040862-110601

INFORMATION FOR SEQ ID NO:65:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:65:

LYQFYHEDV

INFORMATION FOR SEQ ID NO:66:

- (a) SEQUENCE CHARACTERISTICS:
 <212> PEPTIDE
- (b) SEQUENCE DESCRIPTION: SEQ ID NO:66:

AAVGDLEEL

INFORMATION FOR SEQ ID NO:67:

- (a) SEQUENCE CHARACTERISTICS:
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GVLGFTGVA

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SISGPDGYR

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SQVIYSSVK

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QPESSANIR

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(b) SEQUENCE DESCRIPTION: SEQ ID NO:194:

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INFORMATION FOR SEQ ID NO:198:

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INFORMATION FOR SEQ ID NO:450:

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<212> PEPTIDE

SPTPDMEEL

INFORMATION FOR SEQ ID NO:803:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

GSPPILYQF

INFORMATION FOR SEQ ID NO:804:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

SPPILYQFY

INFORMATION FOR SEQ ID NO:805:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

RPNPQEFTY

INFORMATION FOR SEQ ID NO:806:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

NPQEFTYSS

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INFORMATION FOR SEQ ID NO:807:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

GPDGYRRDL

INFORMATION FOR SEQ ID NO:808:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

IPVSRPVL

INFORMATION FOR SEQ ID NO:809:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VPIQSKVVN

INFORMATION FOR SEQ ID NO:810:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

OPVYVNVGS

INFORMATION FOR SEQ ID NO:811:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

IPAVKESDA

INFORMATION FOR SEQ ID NO:812:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

SSANIRTLL

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INFORMATION FOR SEQ ID NO:813:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

ESSANIRTL

INFORMATION FOR SEQ ID NO:814:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

YSCEANNGL

INFORMATION FOR SEQ ID NO:815:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

DSQVIYSSV

INFORMATION FOR SEQ ID NO:816:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

RSPGAQAAV

INFORMATION FOR SEQ ID NO:817:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

ASRPNPQEF

INFORMATION FOR SEQ ID NO:818:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

WGLFGVLGF

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INFORMATION FOR SEQ ID NO:819:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VSISGPDGY

INFORMATION FOR SEQ ID NO:820:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

TAGVLWGLF

INFORMATION FOR SEQ ID NO:821:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

SKVVNI[~]PVR

INFORMATION FOR SEQ ID NO:822:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VKESDAGKY

INFORMATION FOR SEQ ID NO:823:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

NKDSQVIYS

INFORMATION FOR SEQ ID NO:824:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

KKTQRSLSA

INFORMATION FOR SEQ ID NO:825:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

HKISGESSA

INFORMATION FOR SEQ ID NO:826:

(a) SEQUENCE CHARACTERISTICS: 826
<212> PEPTIDE

GKYYCRADN

INFORMATION FOR SEQ ID NO:827:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

GKKTQRSLS

INFORMATION FOR SEQ ID NO:828:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

TNEPRGASR

INFORMATION FOR SEQ ID NO:829:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

ESSATNEPR

INFORMATION FOR SEQ ID NO:830:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VSRPVLTLR

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INFORMATION FOR SEQ ID NO:831:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

SISGPDGYR

INFORMATION FOR SEQ ID NO:832:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

IPVRIPVSR

INFORMATION FOR SEQ ID NO:833:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

ISGPDGYRR

INFORMATION FOR SEQ ID NO:834:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

QPESANIR

INFORMATION FOR SEQ ID NO:835:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

LLLYALFHK

INFORMATION FOR SEQ ID NO:836:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

DMEELOPVY

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INFORMATION FOR SEQ ID NO:837:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

SQVIYSSVK

INFORMATION FOR SEQ ID NO:838:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VLWGLFGVL

INFORMATION FOR SEQ ID NO:839:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VLGFTGVAL

INFORMATION FOR SEQ ID NO:840:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

LLELHCEAL

INFORMATION FOR SEQ ID NO:841:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

MGKKTQRSLSAELEIPAVKESDAGKYCRA

INFORMATION FOR SEQ ID NO:842:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

PAVKESDAGKYCRA DN GHVPIQSKVVNIP

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T0901F " 29804001

INFORMATION FOR SEQ ID NO:843:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

DNGHVPIQSKVVNIPVRIPVSRPVLTLRSP

INFORMATION FOR SEQ ID NO:844:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VRIPVSRPVLTLRSPGAQAAVGDLLLELHCE

INFORMATION FOR SEQ ID NO:845:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

GAQAAVGDLLLELHCEALRGSPPILYQFYHE

INFORMATION FOR SEQ ID NO:846:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

ALRGSPPILYQFYHEDVTILGNSSAPSGGGA

INFORMATION FOR SEQ ID NO:847:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

DVTILGNSSAPSGGGASFNLSLTAEHSGNYS

INFORMATION FOR SEQ ID NO:848:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

BFNLSLTAEHSGNYSCEANGLGAQCSEAV

INFORMATION FOR SEQ ID NO:849:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

CEANGLGAQCSEAVPVSISGPDGYRRDLM

INFORMATION FOR SEQ ID NO:850:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

PVSISGPDGYRRDLMTAGVLWGLFGVLGFT

INFORMATION FOR SEQ ID NO:851:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

TAGVLWGLFGVLGFTGVALLLYALFHKISG

INFORMATION FOR SEQ ID NO:852:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

GVALLLYALFHKISGESSATNEPRGASRPN

INFORMATION FOR SEQ ID NO:853:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

ESSATNEPRGASRPNPQEFTYSSPTDMEE

INFORMATION FOR SEQ ID NO:854:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

PQEFTYSSPTDMEEELQPVYVNVGSVDVDV

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INFORMATION FOR SEQ ID NO:855:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

LQPVYVNVGSVDVDVVYSQVWSMQQPSSA

INFORMATION FOR SEQ ID NO:856:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

VYSQVWSMQQPSSANIRTLLENKDSQVIY

INFORMATION FOR SEQ ID NO:857:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

NIRTLLENKDSQVIYSSVKKS

INFORMATION FOR SEQ ID NO:858:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

KVVNIPVRIPVSRPVLTLRSPGAQAAVGDLLLELHCEALR

INFORMATION FOR SEQ ID NO:859:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

LGAQCSEAVPVSISGPDGYRRDLM

INFORMATION FOR SEQ ID NO:860:

- (a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

ELQPVYVNVGSVDVDV

10040362 110601

INFORMATION FOR SEQ ID NO:861:

(a) SEQUENCE CHARACTERISTICS:
<212> PEPTIDE

GPDGYRRDLMTAGVLWGLFGVLGFTGVALLLYALFHKI

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INFORMATION FOR SEQ ID NO:862:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:862:

Met Leu Leu Trp Ala Ser Leu Leu Ala Phe Ala Pro Val Cys Gly Gln
5 10 15

Ser Ala Ala Ala His Lys Pro Val Ile Ser Val His Pro Pro Trp Thr
20 25 30

Thr Phe Phe Lys Gly Glu Arg Val Thr Leu Thr Cys Asn Gly Phe Gln
35 40 45

Phe Tyr Ala Thr Glu Lys Thr Thr Trp Tyr His Arg His Tyr Trp Gly
50 55 60

Glu Lys Leu Thr Leu Thr Pro Gly Asn Thr Leu Glu Val Arg Glu Ser
65 70 75 80

Gly Leu Tyr Arg Cys Gln Ala Arg Gly Ser Pro Arg Ser Asn Pro Val
85 90 95

Arg Leu Leu Phe Ser Ser Asp Ser Leu Ile Leu Gln Ala Pro Tyr Ser
100 105 110

Val Phe Glu Gly Asp Thr Leu Val Leu Arg Cys His Arg Arg Arg Lys
115 120 125

Glu Lys Leu Thr Ala Val Lys Tyr Thr Trp Asn Gly Asn Ile Leu Ser
130 135 140

Ile Ser Asn Lys Ser Trp Asp Leu Leu Ile Pro Gln Ala Ser Ser Asn
145 150 155 160

Asn Asn Gly Asn Tyr Arg Cys Ile Gly Tyr Gly Asp Glu Asn Asp Val
165 170 175

Phe Arg Ser Asn Phe Lys Ile Ile Lys Ile Gln Glu Leu Phe Pro His
180 185 190

Pro Glu Leu Lys Ala Thr Asp Ser Gln Pro Thr Glu Gly Asn Ser Val
195 200 205

Asn Leu Ser Cys Glu Thr Gln Leu Pro Pro Glu Arg Ser Asp Thr Pro
210 215 220

Leu His Phe Asn Phe Phe Arg Asp Gly Glu Val Ile Leu Ser Asp Trp
225 230 235 240

Ser Thr Tyr Pro Glu Leu Gln Leu Pro Thr Val Trp Arg Glu Asn Ser
245 250 255

Gly Ser Tyr Trp Cys Gly Ala Glu Thr Val Arg Gly Asn Ile His Lys

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260

265

270

His Ser Pro Ser Leu Gln Ile His Val Gln Arg Ile Pro Val Ser Gly
275 280 285

Val Leu Leu Glu Thr Gln Pro Ser Gly Gly Gln Ala Val Glu Gly Glu
290 295 300

Met Leu Val Leu Val Cys Ser Val Ala Glu Gly Thr Gly Asp Thr Thr
305 310 315 320

Phe Ser Trp His Arg Glu Asp Met Gln Glu Ser Leu Gly Arg Lys Thr
325 330 335

Gln Arg Ser Leu Arg Ala Glu Leu Glu Leu Pro Ala Ile Arg Gln Ser
340 345 350

His Ala Gly Gly Tyr Tyr Cys Thr Ala Asp Asn Ser Tyr Gly Pro Val
355 360 365

Gln Ser Met Val Leu Asn Val Thr Val Arg Glu Thr Pro Gly Asn Arg
370 375 380

Asp Gly Leu Val Ala Ala Gly Ala Thr Gly Gly Leu Leu Ser Ala Leu
385 390 395 400

Leu Leu Ala Val Ala Leu Leu Phe His Cys Trp Arg Arg Arg Lys Ser
405 410 415

Gly Val Gly Phe Leu Gly Asp Glu Thr Arg Leu Pro Pro Ala Pro Gly
420 425 430

Pro Gly Glu Ser Ser His Ser Ile Cys Pro Ala Gln Val Glu Leu Gln
435 440 445

Ser Leu Tyr Val Asp Val His Pro Lys Lys Gly Asp Leu Val Tyr Ser
450 455 460

Glu Ile Gln Thr Thr Gln Leu Gly Glu Glu Glu Glu Ala Asn Thr Ser
465 470 475 480

Arg Thr Leu Leu Glu Asp Lys Asp Val Ser Val Val Tyr Ser Glu Val
485 490 495

Lys Thr Gln His Pro Asp Asn Ser Ala Gly Lys Ile Ser Ser Lys Asp
500 505 510

Glu Glu Ser
515

INFORMATION FOR SEQ ID NO:863:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:863:

165

Met Leu Leu Trp Val Ile Leu Leu Val Leu Ala Pro Val Ser Gly Gln
5 10 15

Phe Ala Arg Thr Pro Arg Pro Ile Ile Phe Leu Gln Pro Pro Trp Thr
20 25 30

Thr Val Phe Gln Gly Glu Arg Val Thr Leu Thr Cys Lys Gly Phe Arg
35 40 45

Phe Tyr Ser Pro Gln Lys Thr Lys Trp Tyr His Arg Tyr Leu Gly Lys
50 55 60

Glu Ile Leu Arg Glu Thr Pro Asp Asn Ile Leu Glu Val Gln Glu Ser
65 70 75 80

Gly Glu Tyr Arg Cys Gln Ala Gln Gly Ser Pro Leu Ser Ser Pro Val
85 90 95

His Leu Asp Phe Ser Ser Ala Ser Leu Ile Leu Gln Ala Pro Leu Ser
100 105 110

Val Phe Glu Gly Asp Ser Val Val Leu Arg Cys Arg Ala Lys Ala Glu
115 120 125

Val Thr Leu Asn Asn Thr Ile Tyr Lys Asn Asp Asn Val Leu Ala Phe
130 135 140

Leu Asn Lys Arg Thr Asp Phe His Ile Pro His Ala Cys Leu Lys Asp
145 150 155 160

Asn Gly Ala Tyr Arg Cys Thr Gly Tyr Lys Glu Ser Cys Cys Pro Val
165 170 175

Ser Ser Asn Thr Val Lys Ile Gln Val Gln Glu Pro Phe Thr Arg Pro
180 185 190

Val Leu Arg Ala Ser Ser Phe Gln Pro Ile Ser Gly Asn Pro Val Thr
195 200 205

Leu Thr Cys Glu Thr Gln Leu Ser Leu Glu Arg Ser Asp Val Pro Leu
210 215 220

Arg Phe Arg Phe Phe Arg Asp Asp Gln Thr Leu Gly Leu Gly Trp Ser
225 230 235 240

Leu Ser Pro Asn Phe Gln Ile Thr Ala Met Trp Ser Lys Asp Ser Gly
245 250 255

Phe Tyr Trp Cys Lys Ala Ala Thr Met Pro His Ser Val Ile Ser Asp
260 265 270

Ser Pro Arg Ser Trp Ile Gln Val Gln Ile Pro Ala Ser His Pro Val
275 280 285

Leu Thr Leu Ser Pro Glu Lys Ala Leu Asn Phe Glu Gly Thr Lys Val
290 295 300

Thr Leu His Cys Glu Thr Gln Glu Asp Ser Leu Arg Thr Leu Tyr Arg
305 310 315 320

Phe Tyr His Glu Gly Val Pro Leu Arg His Lys Ser Val Arg Cys Glu
325 330 335

Arg Gly Ala Ser Ile Ser Phe Ser Leu Thr Thr Glu Asn Ser Gly Asn
340 345 350

Tyr Tyr Cys Thr Ala Asp Asn Gly Leu Gly Ala Lys Pro Ser Lys Ala
355 360 365

Val Ser Leu Ser Val Thr Val Pro Val Ser His Pro Val Leu Asn Leu
370 375 380

Ser Ser Pro Glu Asp Leu Ile Phe Glu Gly Ala Lys Val Thr Leu His
385 390 395 400

Cys Glu Ala Gln Arg Gly Ser Leu Pro Ile Leu Tyr Gln Phe His His
405 410 415

Glu Asp Ala Ala Leu Glu Arg Arg Ser Ala Asn Ser Ala Gly Gly Val
420 425 430

Ala Ile Ser Phe Ser Leu Thr Ala Glu His Ser Gly Asn Tyr Tyr Cys
435 440 445

Thr Ala Asp Asn Gly Phe Gly Pro Gln Arg Ser Lys Ala Val Ser Leu
450 455 460

Ser Ile Thr Val Pro Val Ser His Pro Val Leu Thr Leu Ser Ser Ala
465 470 475 480

Glu Ala Leu Thr Phe Glu Gly Ala Thr Val Thr Leu His Cys Glu Val
485 490 495

Gln Arg Gly Ser Pro Gln Ile Leu Tyr Gln Phe Tyr His Glu Asp Met
500 505 510

Pro Leu Trp Ser Ser Ser Thr Pro Ser Val Gly Arg Val Ser Phe Ser
515 520 525

Phe Ser Leu Thr Glu Gly His Ser Gly Asn Tyr Tyr Cys Thr Ala Asp
530 535 540

Asn Gly Phe Gly Pro Gln Arg Ser Glu Val Val Ser Leu Phe Val Thr
545 550 555 560

Val Pro Val Ser Arg Pro Ile Leu Thr Leu Arg Val Pro Arg Ala Gln
565 570 575

Ala Val Val Gly Asp Leu Leu Glu Leu His Cys Glu Ala Pro Arg Gly
580 585 590

Ser Pro Pro Ile Leu Tyr Trp Phe Tyr His Glu Asp Val Thr Leu Gly
595 600 605

Ser Ser Ser Ala Pro Ser Gly Gly Glu Ala Ser Phe Asn Leu Ser Leu
610 615 620

Thr Ala Glu His Ser Gly Asn Tyr Ser Cys Glu Ala Asn Asn Gly Leu
625 630 635 640

Val Ala Gln His Ser Asp Thr Ile Ser Leu Ser Val Ile Val Pro Val
645 650 655

Ser Arg Pro Ile Leu Thr Phe Arg Ala Pro Arg Ala Gln Ala Val Val
660 665 670

Gly Asp Leu Leu Glu Leu His Cys Glu Ala Leu Arg Gly Ser Ser Pro
675 680 685

Ile Leu Tyr Trp Phe Tyr His Glu Asp Val Thr Leu Gly Lys Ile Ser
690 695 700

Ala Pro Ser Gly Gly Gly Ala Ser Phe Asn Leu Ser Leu Thr Thr Glu
705 710 715 720

His Ser Gly Ile Tyr Ser Cys Glu Ala Asp Asn Gly Leu Glu Ala Gln
725 730 735

Arg Ser Glu Met Val Thr Leu Lys Val Ala Gly Glu Trp Ala Leu Pro
740 745 750

Thr Ser Ser Thr Ser Glu Asn
755

INFORMATION FOR SEQ ID NO:864:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:864:

Met Leu Leu Trp Val Ile Leu Leu Val Leu Ala Pro Val Ser Gly Gln
5 10 15

Phe Ala Arg Thr Pro Arg Pro Ile Ile Phe Leu Gln Pro Pro Trp Thr
20 25 30

Thr Val Phe Gln Gly Glu Arg Val Thr Leu Thr Cys Lys Gly Phe Arg
35 40 45

Phe Tyr Ser Pro Gln Lys Thr Lys Trp Tyr His Arg Tyr Leu Gly Lys
50 55 60

Glu Ile Leu Arg Glu Thr Pro Asp Asn Ile Leu Glu Val Gln Glu Ser
65 70 75 80

Gly Glu Tyr Arg Cys Gln Ala Gln Gly Ser Pro Leu Ser Ser Pro Val
85 90 95

168

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His Leu Asp Phe Ser Ser Ala Ser Leu Ile Leu Gln Ala Pro Leu Ser
100 105 110

Val Phe Glu Gly Asp Ser Val Val Leu Arg Cys Arg Ala Lys Ala Glu
115 120 125

Val Thr Leu Asn Asn Thr Ile Tyr Lys Asn Asp Asn Val Leu Ala Phe
130 135 140

Leu Asn Lys Arg Thr Asp Phe His Ile Pro His Ala Cys Leu Lys Asp
145 150 155 160

Asn Gly Ala Tyr Arg Cys Thr Gly Tyr Lys Glu Ser Cys Cys Pro Val
165 170 175

Ser Ser Asn Thr Val Lys Ile Gln Val Gln Glu Pro Phe Thr Arg Pro
180 185 190

Val Leu Arg Ala Ser Ser Phe Gln Pro Ile Ser Gly Asn Pro Val Thr
195 200 205

Leu Thr Cys Glu Thr Gln Leu Ser Leu Glu Arg Ser Asp Val Pro Leu
210 215 220

Arg Phe Arg Phe Phe Arg Asp Asp Gln Thr Leu Gly Leu Gly Trp Ser
225 230 235 240

Leu Ser Pro Asn Phe Gln Ile Thr Ala Met Trp Ser Lys Asp Ser Gly
245 250 255

Phe Tyr Trp Cys Lys Ala Ala Thr Met Pro His Ser Val Ile Ser Asp
260 265 270

Ser Pro Arg Ser Trp Ile Gln Val Gln Ile Pro Ala Ser His Pro Val
275 280 285

Leu Thr Leu Ser Pro Glu Lys Ala Leu Asn Phe Glu Gly Thr Lys Val
290 295 300

Thr Leu His Cys Glu Thr Gln Glu Asp Ser Leu Arg Thr Leu Tyr Arg
305 310 315 320

Phe Tyr His Glu Gly Val Pro Leu Arg His Lys Ser Val Arg Cys Glu
325 330 335

Arg Gly Ala Ser Ile Ser Phe Ser Leu Thr Thr Glu Asn Ser Gly Asn
340 345 350

Tyr Tyr Cys Thr Ala Asp Asn Gly Leu Gly Ala Lys Pro Ser Lys Ala
355 360 365

Val Ser Leu Ser Val Thr Val Pro Val Ser His Pro Val Leu Asn Leu
370 375 380

Ser Ser Pro Glu Asp Leu Ile Phe Glu Gly Ala Lys Val Thr Leu His
385 390 395 400

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Cys Glu Ala Gln Arg Gly Ser Leu Pro Ile Leu Tyr Gln Phe His His
 405 410 415

Glu Asp Ala Ala Leu Glu Arg Arg Ser Ala Asn Ser Ala Gly Gly Val
 420 425 430

Ala Ile Ser Phe Ser Leu Thr Ala Glu His Ser Gly Asn Tyr Tyr Cys
 435 440 445

Thr Ala Asp Asn Gly Phe Gly Pro Gln Arg Ser Lys Ala Val Ser Leu
 450 455 460

Ser Ile Thr Val Pro Val Ser His Pro Val Leu Thr Leu Ser Ser Ala
 465 470 475 480

Glu Ala Leu Thr Phe Glu Gly Ala Thr Val Thr Leu His Cys Glu Val
 485 490 495

Gln Arg Gly Ser Pro Gln Ile Leu Tyr Gln Phe Tyr His Glu Asp Met
 500 505 510

Pro Leu Trp Ser Ser Ser Thr Pro Ser Val Gly Arg Val Ser Phe Ser
 515 520 525

Phe Ser Leu Thr Glu Gly His Ser Gly Asn Tyr Tyr Cys Thr Ala Asp
 530 535 540

Asn Gly Phe Gly Pro Gln Arg Ser Glu Val Val Ser Leu Phe Val Thr
 545 550 555 560

Gly Lys Cys Trp Val Leu Ala Ser His Pro Pro Leu Ala Glu Phe Ser
 565 570 575

Leu Thr His Ser Phe Lys Asn Leu Phe Ala Leu Ser Ser Phe Leu Pro
 580 585 590

INFORMATION FOR SEQ ID NO:865:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:865:

Met Leu Leu Trp Val Ile Leu Leu Val Leu Ala Pro Val Ser Gly Gln
 5 10 15

Phe Ala Arg Thr Pro Arg Pro Ile Ile Phe Leu Gln Pro Pro Trp Thr
 20 25 30

Thr Val Phe Gln Gly Glu Arg Val Thr Leu Thr Cys Lys Gly Phe Arg
 35 40 45

Phe Tyr Ser Pro Gln Lys Thr Lys Trp Tyr His Arg Tyr Leu Gly Lys
 50 55 60

Glu Ile Leu Arg Glu Thr Pro Asp Asn Ile Leu Glu Val Gln Glu Ser

65

70

75

80

Gly Glu Tyr Arg Cys Gln Ala Gln Gly Ser Pro Leu Ser Ser Pro Val
85 90 95

His Leu Asp Phe Ser Ser Ala Ser Leu Ile Leu Gln Ala Pro Leu Ser
100 105 110

Val Phe Glu Gly Asp Ser Val Val Leu Arg Cys Arg Ala Lys Ala Glu
115 120 125

Val Thr Leu Asn Asn Thr Ile Tyr Lys Asn Asp Asn Val Leu Ala Phe
130 135 140

Leu Asn Lys Arg Thr Asp Phe His Ile Pro His Ala Cys Leu Lys Asp
145 150 155 160

Asn Gly Ala Tyr Arg Cys Thr Gly Tyr Lys Glu Ser Cys Cys Pro Val
165 170 175

Ser Ser Asn Thr Val Lys Ile Gln Val Gln Glu Pro Phe Thr Arg Pro
180 185 190

Val Leu Arg Ala Ser Ser Phe Gln Pro Ile Ser Gly Asn Pro Val Thr
195 200 205

Leu Thr Cys Glu Thr Gln Leu Ser Leu Glu Arg Ser Asp Val Pro Leu
210 215 220

Arg Phe Arg Phe Phe Arg Asp Asp Gln Thr Leu Gly Leu Gly Trp Ser
225 230 235 240

Leu Ser Pro Asn Phe Gln Ile Thr Ala Met Trp Ser Lys Asp Ser Gly
245 250 255

Phe Tyr Trp Cys Lys Ala Ala Thr Met Pro His Ser Val Ile Ser Asp
260 265 270

Ser Pro Arg Ser Trp Ile Gln Val Gln Ile Pro Ala Ser His Pro Val
275 280 285

Leu Thr Leu Ser Pro Glu Lys Ala Leu Asn Phe Glu Gly Thr Lys Val
290 295 300

Thr Leu His Cys Glu Thr Gln Glu Asp Ser Leu Arg Thr Leu Tyr Arg
305 310 315 320

Phe Tyr His Glu Gly Val Pro Leu Arg His Lys Ser Val Arg Cys Glu
325 330 335

Arg Gly Ala Ser Ile Ser Phe Ser Leu Thr Thr Glu Asn Ser Gly Asn
340 345 350

Tyr Tyr Cys Thr Ala Asp Asn Gly Leu Gly Ala Lys Pro Ser Lys Ala
355 360 365

Val Ser Leu Ser Val Thr Val Pro Val Ser His Pro Val Leu Asn Leu

370

375

380

Ser Ser Pro Glu Asp Leu Ile Phe Glu Gly Ala Lys Val Thr Leu His
385 390 395 400

Cys Glu Ala Gln Arg Gly Ser Leu Pro Ile Leu Tyr Gln Phe His His
405 410 415

Glu Asp Ala Ala Leu Glu Arg Arg Ser Ala Asn Ser Ala Gly Gly Val
420 425 430

Ala Ile Ser Phe Ser Leu Thr Ala Glu His Ser Gly Asn Tyr Tyr Cys
435 440 445

Thr Ala Asp Asn Gly Phe Gly Pro Gln Arg Ser Lys Ala Val Ser Leu
450 455 460

Ser Ile Thr Val Pro Val Ser His Pro Val Leu Thr Leu Ser Ser Ala
465 470 475 480

Glu Ala Leu Thr Phe Glu Gly Ala Thr Val Thr Leu His Cys Glu Val
485 490 495

Gln Arg Gly Ser Pro Gln Ile Leu Tyr Gln Phe Tyr His Glu Asp Met
500 505 510

Pro Leu Trp Ser Ser Ser Thr Pro Ser Val Gly Arg Val Ser Phe Ser
515 520 525

Phe Ser Leu Thr Glu Gly His Ser Gly Asn Tyr Tyr Cys Thr Ala Asp
530 535 540

Asn Gly Phe Gly Pro Gln Arg Ser Glu Val Val Ser Leu Phe Val Thr
545 550 555 560

Val Pro Val Ser Arg Pro Ile Leu Thr Leu Arg Val Pro Arg Ala Gln
565 570 575

Ala Val Val Gly Asp Leu Leu Glu Leu His Cys Glu Ala Pro Arg Gly
580 585 590

Ser Pro Pro Ile Leu Tyr Trp Phe Tyr His Glu Asp Val Thr Leu Gly
595 600 605

Ser Ser Ser Ala Pro Ser Gly Gly Glu Ala Ser Phe Asn Leu Ser Leu
610 615 620

Thr Ala Glu His Ser Gly Asn Tyr Ser Cys Glu Ala Asn Asn Gly Leu
625 630 635 640

Val Ala Gln His Ser Asp Thr Ile Ser Leu Ser Val Ile Val Pro Val
645 650 655

Ser Arg Pro Ile Leu Thr Phe Arg Ala Pro Arg Ala Gln Ala Val Val
660 665 670

Gly Asp Leu Leu Glu Leu His Cys Glu Ala Leu Arg Gly Ser Ser Pro

675

680

685

Ile Leu Tyr Trp Phe Tyr His Glu Asp Val Thr Leu Gly Lys Ile Ser
690 695 700

Ala Pro Ser Gly Gly Gly Ala Ser Phe Asn Leu Ser Leu Thr Thr Glu
705 710 715 720

His Ser Gly Ile Tyr Ser Cys Glu Ala Asp Asn Gly Leu Glu Ala Gln
725 730 735

Arg Ser Glu Met Val Thr Leu Lys Val Ala Val Pro Val Ser Arg Pro
740 745 750

Val Leu Thr Leu Arg Ala Pro Gly Thr His Ala Ala Val Gly Asp Leu
755 760 765

Leu Glu Leu His Cys Glu Ala Leu Arg Gly Ser Pro Leu Ile Leu Tyr
770 775 780

Arg Phe Phe His Glu Asp Val Thr Leu Gly Asn Arg Ser Ser Pro Ser
785 790 795 800

Gly Gly Ala Ser Leu Asn Leu Ser Leu Thr Ala Glu His Ser Gly Asn
805 810 815

Tyr Ser Cys Glu Ala Asp Asn Gly Leu Gly Ala Gln Arg Ser Glu Thr
820 825 830

Val Thr Leu Tyr Ile Thr Gly Leu Thr Ala Asn Arg Ser Gly Pro Phe
835 840 845

Ala Thr Gly Val Ala Gly Gly Leu Leu Ser Ile Ala Gly Leu Ala Ala
850 855 860

Gly Ala Leu Leu Leu Tyr Cys Trp Leu Ser Arg Lys Ala Gly Arg Lys
865 870 875 880

Pro Ala Ser Asp Pro Ala Arg Ser Pro Ser Asp Ser Asp Ser Gln Glu
885 890 895

Pro Thr Tyr His Asn Val Pro Ala Trp Glu Glu Leu Gln Pro Val Tyr
900 905 910

Thr Asn Ala Asn Pro Arg Gly Glu Asn Val Val Tyr Ser Glu Val Arg
915 920 925

Ile Ile Gln Glu Lys Lys Lys His Ala Val Ala Ser Asp Pro Arg His
930 935 940

Leu Arg Asn Lys Gly Ser Pro Ile Ile Tyr Ser Glu Val Lys Val Ala
945 950 955 960

Ser Thr Pro Val Ser Gly Ser Leu Phe Leu Ala Ser Ser Ala Pro His
965 970 975

Arg

173

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INFORMATION FOR SEQ ID NO:866:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:866:

Met Leu Leu Trp Leu Leu Leu Leu Ile Leu Thr Pro Gly Arg Glu Gln
5 10 15

Ser Gly Val Ala Pro Lys Ala Val Leu Leu Leu Asn Pro Pro Trp Ser
20 25 30

Thr Ala Phe Lys Gly Glu Lys Val Ala Leu Ile Cys Ser Ser Ile Ser
35 40 45

His Ser Leu Ala Gln Gly Asp Thr Tyr Trp Tyr His Asp Glu Lys Leu
50 55 60

Leu Lys Ile Lys His Asp Lys Ile Gln Ile Thr Glu Pro Gly Asn Tyr
65 70 75 80

Gln Cys Lys Thr Arg Gly Ser Ser Leu Ser Asp Ala Val His Val Glu
85 90 95

Phe Ser Pro Asp Trp Leu Ile Leu Gln Ala Leu His Pro Val Phe Glu
100 105 110

Gly Asp Asn Val Ile Leu Arg Cys Gln Gly Lys Asp Asn Lys Asn Thr
115 120 125

His Gln Lys Val Tyr Tyr Lys Asp Gly Lys Gln Leu Pro Asn Ser Tyr
130 135 140

Asn Leu Glu Lys Ile Thr Val Asn Ser Val Ser Arg Asp Asn Ser Lys
145 150 155 160

Tyr His Cys Thr Ala Tyr Arg Lys Phe Tyr Ile Leu Asp Ile Glu Val
165 170 175

Thr Ser Lys Pro Leu Asn Ile Gln Val Gln Glu Leu Phe Leu His Pro
180 185 190

Val Leu Arg Ala Ser Ser Ser Thr Pro Ile Glu Gly Ser Pro Met Thr
195 200 205

Leu Thr Cys Glu Thr Gln Leu Ser Pro Gln Arg Pro Asp Val Gln Leu
210 215 220

Gln Phe Ser Leu Phe Arg Asp Ser Gln Thr Leu Gly Leu Gly Trp Ser
225 230 235 240

Arg Ser Pro Arg Leu Gln Ile Pro Ala Met Trp Thr Glu Asp Ser Gly
245 250 255

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Ser Tyr Trp Cys Glu Val Glu Thr Val Thr His Ser Ile Lys Lys Arg
260 265 270

Ser Leu Arg Ser Gln Ile Arg Val Gln Arg Val Pro Val Ser Asn Val
275 280 285

Asn Leu Glu Ile Arg Pro Thr Gly Gly Gln Leu Ile Glu Gly Glu Asn
290 295 300

Met Val Leu Ile Cys Ser Val Ala Gln Gly Ser Gly Thr Val Thr Phe
305 310 315 320

Ser Trp His Lys Glu Gly Arg Val Arg Ser Leu Gly Arg Lys Thr Gln
325 330 335

Arg Ser Leu Leu Ala Glu Leu His Val Leu Thr Val Lys Glu Ser Asp
340 345 350

Ala Gly Arg Tyr Tyr Cys Ala Ala Asp Asn Val His Ser Pro Ile Leu
355 360 365

Ser Thr Trp Ile Arg Val Thr Val Arg Ile Pro Val Ser His Pro Val
370 375 380

Leu Thr Phe Arg Ala Pro Arg Ala His Thr Val Val Gly Asp Leu Leu
385 390 395 400

Glu Leu His Cys Glu Ser Leu Arg Gly Ser Pro Pro Ile Leu Tyr Arg
405 410 415

Phe Tyr His Glu Asp Val Thr Leu Gly Asn Ser Ser Ala Pro Ser Gly
420 425 430

Gly Gly Ala Ser Phe Asn Leu Ser Leu Thr Ala Glu His Ser Gly Asn
435 440 445

Tyr Ser Cys Asp Ala Asp Asn Gly Leu Gly Ala Gln His Ser His Gly
450 455 460

Val Ser Leu Arg Val Thr Val Pro Val Ser Arg Pro Val Leu Thr Leu
465 470 475 480

Arg Ala Pro Gly Ala Gln Ala Val Val Gly Asp Leu Leu Glu Leu His
485 490 495

Cys Glu Ser Leu Arg Gly Ser Phe Pro Ile Leu Tyr Trp Phe Tyr His
500 505 510

Glu Asp Asp Thr Leu Gly Asn Ile Ser Ala His Ser Gly Gly Gly Ala
515 520 525

Ser Phe Asn Leu Ser Leu Thr Thr Glu His Ser Gly Asn Tyr Ser Cys
530 535 540

Glu Ala Asp Asn Gly Leu Gly Ala Gln His Ser Lys Val Val Thr Leu
545 550 555 560

Asn Val Thr Gly Thr Ser Arg Asn Arg Thr Gly Leu Thr Ala Ala Gly
565 570 575

Ile Thr Gly Leu Val Leu Ser Ile Leu Val Leu Ala Ala Ala Ala
580 585 590

Leu Leu His Tyr Ala Arg Ala Arg Arg Lys Pro Gly Gly Leu Ser Ala
595 600 605

Thr Gly Thr Ser Ser His Ser Pro Ser Glu Cys Gln Glu Pro Ser Ser
610 615 620

Ser Arg Pro Ser Arg Ile Asp Pro Gln Glu Pro Thr His Ser Lys Pro
625 630 635 640

Leu Ala Pro Met Glu Leu Glu Pro Met Tyr Ser Asn Val Asn Pro Gly
645 650 655

Asp Ser Asn Pro Ile Tyr Ser Gln Ile Trp Ser Ile Gln His Thr Lys
660 665 670

Glu Asn Ser Ala Asn Cys Pro Met Met His Gln Glu His Glu Glu Leu
675 680 685

Thr Val Leu Tyr Ser Glu Leu Lys Lys Thr His Pro Asp Asp Ser Ala
690 695 700

Gly Glu Ala Ser Ser Arg Gly Arg Ala His Glu Glu Asp Asp Glu Glu
705 710 715 720

Asn Tyr Glu Asn Val Pro Arg Val Leu Leu Ala Ser Asp His
725 730

INFORMATION FOR SEQ ID NO:867:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:867:

Met Leu Leu Trp Ser Leu Leu Val Ile Phe Asp Ala Val Thr Glu Gln
5 10 15

Ala Asp Ser Leu Thr Leu Val Ala Pro Ser Ser Val Phe Glu Gly Asp
20 25 30

Ser Ile Val Leu Lys Cys Gln Gly Glu Gln Asn Trp Lys Ile Gln Lys
35 40 45

Met Ala Tyr His Lys Asp Asn Lys Glu Leu Ser Val Phe Lys Lys Phe
50 55 60

Ser Asp Phe Leu Ile Gln Ser Ala Val Leu Ser Asp Ser Gly Asn Tyr
65 70 75 80

Phe Cys Ser Thr Lys Gly Gln Leu Phe Leu Trp Asp Lys Thr Ser Asn

85

90

95

Ile Val Lys Ile Lys Val Gln Glu Leu Phe Gln Arg Pro Val Leu Thr
 100 105 110
 Ala Ser Ser Phe Gln Pro Ile Glu Gly Gly Pro Val Ser Leu Lys Cys
 115 120 125
 Glu Thr Arg Leu Ser Pro Gln Arg Leu Asp Val Gln Leu Gln Phe Cys
 130 135 140
 Phe Phe Arg Glu Asn Gln Val Leu Gly Ser Gly Trp Ser Ser Ser Pro
 145 150 155 160
 Glu Leu Gln Ile Ser Ala Val Trp Ser Glu Asp Thr Gly Ser Tyr Trp
 165 170 175
 Cys Lys Ala Glu Thr Val Thr His Arg Ile Arg Lys Gln Ser Leu Gln
 180 185 190
 Ser Gln Ile His Val Gln Arg Ile Pro Ile Ser Asn Val Ser Leu Glu
 195 200 205
 Ile Arg Ala Pro Gly Gly Gln Val Thr Glu Gly Gln Lys Leu Ile Leu
 210 215 220
 Leu Cys Ser Val Ala Gly Gly Thr Gly Asn Val Thr Phe Ser Trp Tyr
 225 230 235 240
 Arg Glu Ala Thr Gly Thr Ser Met Gly Lys Lys Thr Gln Arg Ser Leu
 245 250 255
 Ser Ala Glu Leu Glu Ile Pro Ala Val Lys Glu Ser Asp Ala Gly Lys
 260 265 270
 Tyr Tyr Cys Arg Ala Asp Asn Gly His Val Pro Ile Gln Ser Lys Val
 275 280 285
 Val Asn Ile Pro Val Arg Ile Pro Val Ser Arg Pro Val Leu Thr Leu
 290 295 300
 Arg Ser Pro Gly Ala Gln Ala Ala Val Gly Asp Leu Leu Glu Leu His
 305 310 315 320
 Cys Glu Ala Leu Arg Gly Ser Pro Pro Ile Leu Tyr Gln Phe Tyr His
 325 330 335
 Glu Asp Val Thr Leu Gly Asn Ser Ser Ala Pro Ser Gly Gly Gly Ala
 340 345 350
 Ser Phe Asn Leu Ser Leu Thr Ala Glu His Ser Gly Asn Tyr Ser Cys
 355 360 365
 Glu Ala Asn Asn Gly Leu Gly Ala Gln Cys Ser Glu Ala Val Pro Val
 370 375 380
 Ser Ile Ser Gly Pro Asp Gly Tyr Arg Arg Asp Leu Met Thr Ala Gly

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385

390

395

400

Val Leu Trp Gly Leu Phe Gly Val Leu Gly Phe Thr Gly Val Ala Leu
405 410 415

Leu Leu Tyr Ala Leu Phe His Lys Ile Ser Gly Glu Ser Ser Ala Thr
420 425 430

Asn Glu Pro Arg Gly Ala Ser Arg Pro Asn Pro Gln Glu Phe Thr Tyr
435 440 445

Ser Ser Pro Thr Pro Asp Met Glu Glu Leu Gln Pro Val Tyr Val Asn
450 455 460

Val Gly Ser Val Asp Val Asp Val Val Tyr Ser Gln Val Trp Ser Met
465 470 475 480

Gln Gln Pro Glu Ser Ser Ala Asn Ile Arg Thr Leu Leu Glu Asn Lys
485 490 495

Asp Ser Gln Val Ile Tyr Ser Ser Val Lys Lys Ser
500 505

INFORMATION FOR SEQ ID NO:868:

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:868:

Met Leu Pro Arg Leu Leu Leu Leu Ile Cys Ala Pro Leu Cys Glu Pro
5 10 15

Ala Glu Leu Phe Leu Ile Ala Ser Pro Ser His Pro Thr Glu Gly Ser
20 25 30

Pro Val Thr Leu Thr Cys Lys Met Pro Phe Leu Gln Ser Ser Asp Ala
35 40 45

Gln Phe Gln Phe Cys Phe Phe Arg Asp Thr Arg Ala Leu Gly Pro Gly
50 55 60

Trp Ser Ser Ser Pro Lys Leu Gln Ile Ala Ala Met Trp Lys Glu Asp
65 70 75 80

Thr Gly Ser Tyr Trp Cys Glu Ala Gln Thr Met Ala Ser Lys Val Leu
85 90 95

Arg Ser Arg Arg Ser Gln Ile Asn Val His Arg Val Pro Val Ala Asp
100 105 110

Val Ser Leu Glu Thr Gln Pro Pro Gly Gly Gln Val Met Glu Gly Asp
115 120 125

Arg Leu Val Leu Ile Cys Ser Val Ala Met Gly Thr Gly Asp Ile Thr
130 135 140

Phe Leu Trp Tyr Lys Gly Ala Val Gly Leu Asn Leu Gln Ser Lys Thr
145 150 155 160

Gln Arg Ser Leu Thr Ala Glu Tyr Glu Ile Pro Ser Val Arg Glu Ser
165 170 175

Asp Ala Glu Gln Tyr Tyr Cys Val Ala Glu Asn Gly Tyr Gly Pro Ser
180 185 190

Pro Ser Gly Leu Val Ser Ile Thr Val Arg Ile Pro Val Ser Arg Pro
195 200 205

Ile Leu Met Leu Arg Ala Pro Arg Ala Gln Ala Ala Val Glu Asp Val
210 215 220

Leu Glu Leu His Cys Glu Ala Leu Arg Gly Ser Pro Pro Ile Leu Tyr
225 230 235 240

Trp Phe Tyr His Glu Asp Ile Thr Leu Gly Ser Arg Ser Ala Pro Ser
245 250 255

Gly Gly Gly Ala Ser Phe Asn Leu Ser Leu Thr Glu Glu His Ser Gly
260 265 270

Asn Tyr Ser Cys Glu Ala Asn Asn Gly Leu Gly Ala Gln Arg Ser Glu
275 280 285

Ala Val Thr Leu Asn Phe Thr Val Pro Thr Gly Ala Arg Ser Asn His
290 295 300

Leu Thr Ser Gly Val Ile Glu Gly Leu Leu Ser Thr Leu Gly Pro Ala
305 310 315 320

Thr Val Ala Leu Leu Phe Cys Tyr Gly Leu Lys Arg Lys Ile Gly Arg
325 330 335

Arg Ser Ala Arg Asp Pro Leu Arg Ser Leu Pro Ser Pro Leu Pro Gln
340 345 350

Glu Phe Thr Tyr Leu Asn Ser Pro Thr Pro Gly Gln Leu Gln Pro Ile
355 360 365

Tyr Glu Asn Val Asn Val Val Ser Gly Asp Glu Val Tyr Ser Leu Ala
370 375 380

Tyr Tyr Asn Gln Pro Glu Gln Glu Ser Val Ala Ala Glu Thr Leu Gly
385 390 395 400

Thr His Met Glu Asp Lys Val Ser Leu Asp Ile Tyr Ser Arg Leu Arg
405 410 415

Lys Ala Asn Ile Thr Asp Val Asp Tyr Glu Asp Ala Met
420 425

INFORMATION FOR SEQ ID NO:869:

179

(a) SEQUENCE CHARACTERISTICS:

<212> PRT

<213> Homo sapiens

(b) SEQUENCE DESCRIPTION: SEQ ID NO:869:

Asp Asn Val His Ser Pro Ile Leu Ser Thr Trp Ile Arg Val Thr Val
5 10 15

Arg Ile Pro Val Ser His Pro Val Leu Thr Phe Arg Ala Pro Arg Ala
20 25 30

His Thr Val Val Gly Asp Leu Leu Glu Leu His Cys Glu Ser Leu Arg
35 40 45

Gly Ser Pro Pro Ile Leu Tyr Arg Phe Tyr His Glu Asp Val Thr Leu
50 55 60

Gly Asn Ser Ser Ala Pro Ser Gly Gly Gly Ala Ser Phe Asn Leu Ser
65 70 75 80

Leu Thr Ala Glu His Ser Gly Asn Tyr Ser Cys Asp Ala Asp Asn Gly
85 90 95

Leu Gly Ala Gln His Ser His Gly Val Ser Leu Arg Val Thr Val Pro
100 105 110

Val Ser Arg Pro Val Leu Thr Leu Arg Ala Pro Gly Ala Gln Ala Val
115 120 125

Val Gly Asp Pro Leu Glu Leu His Cys Glu Ser Leu Arg Gly Ser Phe
130 135 140

Pro Ile Leu Tyr Trp Phe Tyr His Glu Asp Asp Thr Leu Gly Asn Ile
145 150 155 160

Ser Ala His Ser Gly Gly Gly Ala Ser Phe Asn Leu Ser Leu Thr Thr
165 170 175

Glu His Ser Gly Asn Tyr Ser Cys Glu Ala Asp Asn Gly Leu Gly Ala
180 185 190

Gln His Ser Lys Val Val Thr Leu Asn Val Thr Gly Thr Ser Arg Asn
195 200 205

Arg Thr Gly Leu Thr Xaa Ala Gly Ile Thr Gly Leu Val Xaa Xaa Ile
210 215 220

Xaa Val Leu Xaa Ala Ala Ala Ala Leu Leu His Tyr Ala Arg Ala Arg
225 230 235 240

Arg Lys Pro Gly Gly Leu Ser Ala Thr Gly Thr Ser Ser His Ser Pro
245 250 255

Ser Glu Cys Gln Glu Pro Ser Ser Ser Arg
260 265

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